Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for June 27, 2014
Ed Kearns, Acting Chief

#	CDR	PI / TM	Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metatdata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR
1	AMSU-A FCDR (CH7 GPSRO)	Ho Shi	x	x	x	22-Jul	28-Jun	22-Jul	x	4-Sep	x	26-Jul	11-Jul	26-Jul	x	9-Sep	23-Aug	5-Aug	27-Aug	5-Aug	13-Sep	10-Sep	11-Sep	27-Aug	17-Sep	17-Sep	17-Sep	20-Sep	24-Sep	7-Nov
2	Could Properties	Heidinger Knapp	x	x	x	x	17-Mar	11-Jan	x	16-Jan	x	x	13-May	14-Jan	x	30-Jan	21-Apr	x	15-May	16-Jan	In Progress	5-Mar		x	11-Jun	11-Jun	In Progress			Jul 2014
3,4	Vegetation (Sfc Ref, NDVI)	Vermote Matthews	x	17-Jan	22-May	2-Jul	26-Jul	7-May	22-May	6-Nov	29-May	9-Jul	22-Aug	6-Nov	30-Jun	8-Nov	1-Apr	1-Nov	19-Nov	5-Mar	24-Apr	12-Nov	14-May	6-Nov	15-May	6-May	7-May	15-May	16-May	21-May
5	MSU TCDR	Zou Semunegus	x	IP 23-Dec	25-Feb	25-Feb	25-Feb	25-Feb	25-Feb	19-Mar	4-Mar	4-Mar	4-Mar	4-Mar	4-Mar	26-Mar	28-Mar	31-Mar	31-Mar	31-Mar	28-Mar	2-Apr	11-Jun	2-May	8-May	25-Apr	1-Apr	11-Jun	11-Jun	12-Jun
6	OLR Daily	HT Lee Shreck	x	x	1-Jun	6-Jan	1-Jun	11-Jan	30-Jan	10-Jun	2-Jun	10-Jun	4-Jun	14-Jan	6-Jun	10-Jun	3-Jun	15-Jan	5-Jun	15-Jan	16-Jun	11-Jun	24-Jun	12-Jun	18-Jun	12-Jun	23-Jun	24-Jun		Jul 2014
7,8,9	Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson Peng	x	21-Feb	12-Dec	3-Apr	20-May	19-Feb	25-Nov	ATRAC	16-Dec		6-Jun		13-Dec															Aug 2014
10	Stratospheric (Ozone)	Rosenlof Young	x	x	20-May		20-Mar		30-Oct 4-Apr	ATRAC	12-Jun		27-Mar		6-Jan 12-Jun															Aug 2014
11,12	Cryosphere (APP FCDR) (APP-x TCDR)	Key Young	13-Jun	IP 20-Dec	3-Jun		20-Mar	12-Mar	12-Mar				25-Apr	20-Mar	25-Apr															Aug 2014
13	AVHRR FCDR (5 CHs, Cloud Properties)	Minnis Young	x	22-Nov		14-Feb	31-Dec 28-Mar	7-Feb	14-Feb	20-Dec		21-Feb	13-Feb 2-Jun	14-Feb	18-Feb	19-Jun					1TB / day						60 TB			Aug 2014
14	Vegetation (LAI/FAPAR)	Vermote Matthews	x	17-Jan	24-Jun	2-Jul	26-Jul	7-May		6-Nov	29-May	9-Jul	22-Aug			8-Nov	1-Nov													Sep 2014
15	Cloud/ Moisture Bundle (CTP, TPW)	Menzel Young	x	31-Jan	1-Oct	5-Aug	15-May	5-Aug	21-Oct		29-Oct	29-Oct	29-Oct 10-Jan									NCDC creating							Sep 2014
16	CMORPH	Xie Prat	x																											Oct 2014
17	Solar Irradiance (Oservational)	Pilewskie Inamdar	x	6-Mar	22-Jan	26-Mar		26-Mar		ATRAC	9-May																			Nov 2014
18	Solar Irradiance (Composite)	Lean Inamdar	x	6-Mar	22-Jan	26-Mar		26-Mar		ATRAC	9-May																			Nov 2014
19	ISCCP	Rossow Knapp	x	17-Jan																										Dec 2014
20	NRT Sea Ice Concentration	Fetterer Peng	x	PI says NO deliverables																										Dec 2014
21	Tropospheric Height	Ho Shi	x	On Hold																										Dec 2014

7/14/2014 ● = On-track ● = Potential management action required ● = Management attention required

PREDECISIONAL DRAFT INFORMATION

#	CDR	PI / TM	Status	Conduct ORR
1	AMSU-A FCDR (CH7 GPSRO)	Ho / Shi	1) **Complete**	7-Nov
2	Could Properties	Heidinger / Knapp	2) **Data transfer still ongoing; postponed ORR until 7/3**	Jul 2014
3,4	Vegetation (Sfc Ref, NDVI)	Vermote / Matthews	3-4) **Complete**	21-May
5	MSU TCDR	Zou / Semunegus	5) **Complete**	12-Jun
6	OLR Daily	HT Lee / Shreck	6) PI using sftp for transfer. **Prepping for ORR on 7/3**	Jul 2014
7,8,9	Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson / Peng	7-9) Provided feedback on C-ATBD; **received sample data for 2001, data looks good.**	Aug 2014
10	Stratospheric (Ozone)	Rosenlof / Young	10) **Received updated code package, looks good; AB working with OB to determine best way to organize file metadata.**	Aug 2014
11,12	Cryosphere (APP FCDR) (APP-x TCDR)	Key / Young	11-12) Reviewing TCDR C-ATBD; Feedback sent on metadata	Aug 2014
13	AVHRR FCDR (5 CHs, Cloud Properties)	Minnis / Young	13) **60TB dataset , Met with ITB to sort out transfer methods (PI will push up to 1TB/day to ftp4 using sftp)**	Aug 2014
14	Vegetation (LAI/FAPAR)	Vermote / Matthews	14) Schedule laid out for completion in Sep; will start daily updates on all 3 CDRs after LAI/FAPAR transition	Sep 2014
15	Cloud/ Moisture Bundle (CTP, TPW)	Menzel / Young	15) ATRAC request for L1B PATMOS input data **(12.5 TB), final dataset (3 TB)**	Sep 2014
16	CMORPH	Xie / Prat	16) **Started R2O process; requested assessment items, introduced IPT, set up group email, sent PI templates and guidelines**	Oct 2014
17	Solar Irradiance (Oservational)	Pilewskie / Inamdar	17) Received updated code package (headers look good, easy to run IDL script); **IPT set up for 7/2**	Nov 2014
18	Solar Irradiance (Composite)	Lean / Inamdar	18) POR 1882 to present for TSI and SSI (annual from 1615); received sample data, needs a lot of work.	Nov 2014
19	ISCCP	Rossow / Knapp	19) Anand/Alisa/Bill found coding error; they were able to step through one month of processing	Dec 2014
20	NRT Sea Ice Concentration	Fetterer / Peng	20) PI says there are NO deliverables with a grant - will need to monitor closely	Dec 2014
21	Tropospheric Height	Ho / Shi	21) On hold – low priority	Dec 2014

Column headers (grouped):
- **Assessment**: Assemble IPT, Perform Assessment
- **Deliver Drafts**: Deliver source code sample and README draft, Deliver Flow Diagram Draft, Deliver C-ATBD Draft, Deliver Maturity Matrix Draft, Deliver Sample netCDF dataset, Deliver SA Draft
- **Review and Provide Feedback**: Provide feedback on source code and README, Provide feedback on Flow Diagram Draft, Provide feedback on C-ATBD Draft, Provide feedback on Maturity Matrix Draft, Provide feedback on Sample netCDF dataset, Provide feedback on SA Draft
- **Deliver Final Versions**: Deliver final source code and README, Deliver final Flow Diagram, Deliver final C-ATBD, Deliver final Maturity Matrix, Deliver final netCDF dataset, Deliver final SA
- **Misc**: Create Collection Level Metatdata, Conduct Security Review
- **Archive**: Archive Code Package, Archive Docs, Archive Data
- **Release**: Make data publicly available, Put data, docs, and code on dev web page, Conduct ORR

🟢 = On-track   🟡 = Potential management action required   🔴 = Management attention required

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CDRP Open Change Requests

Name of CDR	C-ATBD	Data Flow Diagram	Maturity Matrix	VDD	Source Code	NetCDF sample	Dataset	Request to Archive	Approved for Archive	SA	DSRR
AVHRR Reflectance - PATMOS-x	No change	√	No change	N/A	√	√	Dataset is being archived, should finish soon	√	√	Mar-14	Mar-14
Geostationary IR Channel Brightness Temperature - GridSat B1	Needed, TBD	Needed, TBD	Needed, TBD	N/A	√	√	√	√	√	√	Aug-13
Sea Surface Temperature - Pathfinder	Received draft, routing for review (will require one more update)	No change	No change	√	√	√	Needed, TBD	√	√	Needed, TBD	Needed, TBD
Mean Layer Temperature - UAH	Needed, TBD	Needed, TBD	N/A	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD

GST FY14 Subcontracts

PI	CDRs	Start Date	End Date	WA Complete	Sub-contract in place
Christy	Mean Layer Temperature - UAH	15-Sep-14	31-Mar-15	√	
Ho	- Mean Layer Temperature - UCAR (Lower Stratosphere) - Mean Layer Temperature - UCAR (Troposphere and Stratosphere) - Tropopause Height Climatology	17-Sep-14	31-Mar-15	√	
Robinson	Snow Cover Extent (Northern Hemisphere)	11-Sep-14	31-Mar-15	√	
Sorooshian	Precipitation - PERSIANN-CDR	1-Aug-14	31-Mar-15	√	
Zhang	ISCCP Radiation Budget	1-Aug-14	31-Mar-15	√	
Wentz	SSMI(S) Brightness Temperature - RSS	14-Sep-14	31-Mar-15	√	
Mears	Mean Layer Temperature - RSS	14-Sep-14	31-Mar-15	√	

Weekly Report – June 27, 2014

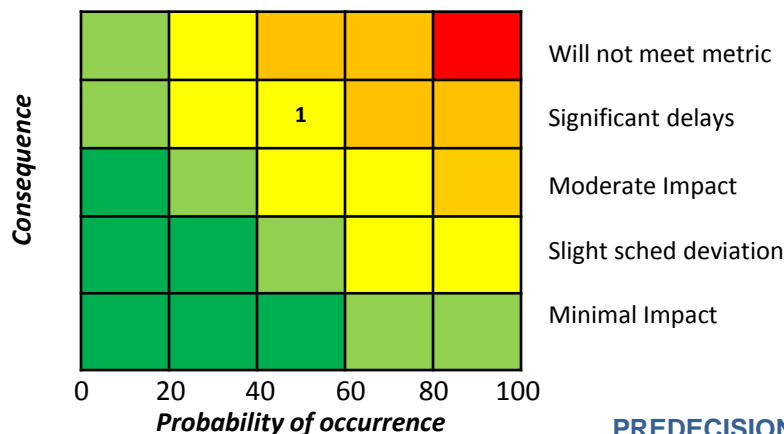**①** **OISST – Optimum Interpolated Sea Surface Temperature**
- **Performing dry runs for the System Acceptance Test.**
- **ITB is creating a new dev machine we can clone for test. (3 tier)**
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review July 25.

Operations:

OISST Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones						TRR,SAT,ORR											
SLA & Ingest																	
Update Outputs																	
Update Scripts																	
Obtain data																	
Reprocess																	
OAD																	
TEST																	
Dry Runs																	
SAT																	
OPS																	
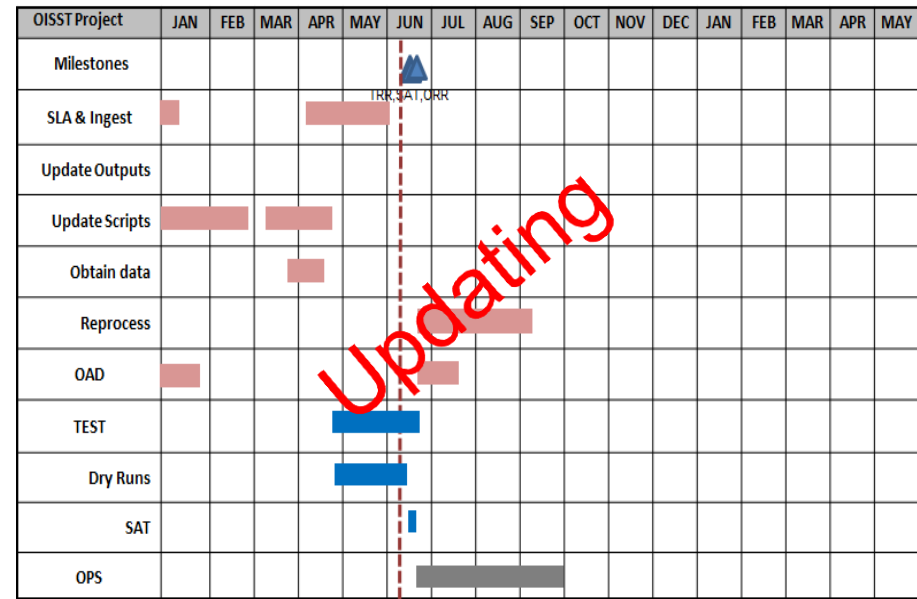
R2O PHASE: ANALYSIS | DESIGN | DEVELOPMENT | INTEGRATION | TEST | OPERATIONAL

Risk Matrix

Consequence (y-axis, bottom to top):
- Minimal Impact
- Slight sched deviation
- Moderate Impact
- Significant delays
- Will not meet metric

Probability of occurrence (x-axis): 0 20 40 60 80 100

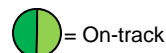Risk **1** plotted at Significant delays / ~40 probability.
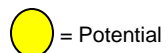
Risk and Mitigation

1 Time to progress through the three tier environment. ITB support is required.
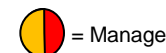
PREDECISIONAL DRAFT INFORMATION

7/14/2014

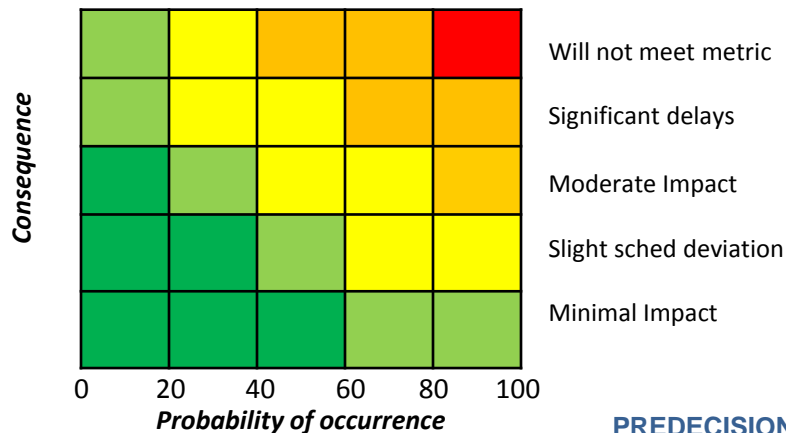● = On-track ● = Potential management action required ● = Management attention required

Weekly Report – June 27, 2014

1 **Operations Monitoring Tool development**
- **Defining scope of the project and defining draft requirements.**
- **Updating the monitoring project plan.**
- **Determining**
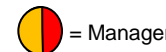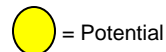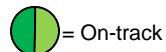- Monitoring of operational processing and ingest.

Risk Matrix

Consequence (vertical axis, top to bottom):
- Will not meet metric
- Significant delays
- Moderate Impact
- Slight sched deviation
- Minimal Impact

Probability of occurrence (horizontal axis): 0 20 40 60 80 100

Risk and Mitigation

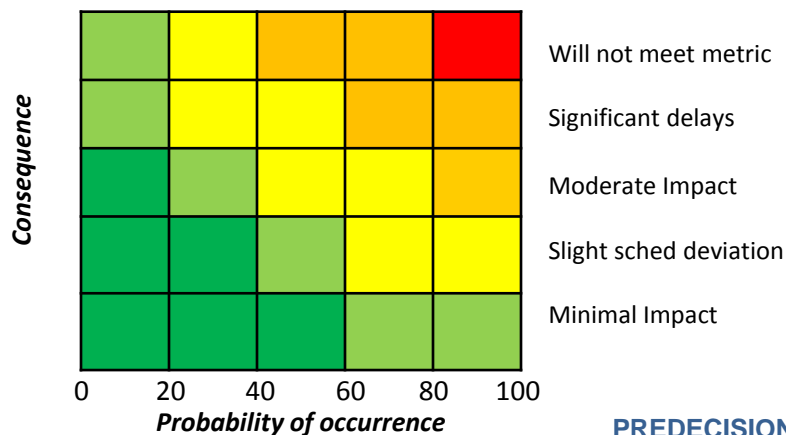= On-track   = Potential management action required   = Management attention required

7/14/2014

Weekly Report – June 27, 2014

1 **Operations Monitoring Tool development**
- **Discussed scope and goals of the project with CDRP scientist.**
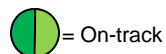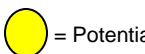- **Working on Project Charter and Plan.**

Risk Matrix

Consequence (y-axis, top to bottom):
- Will not meet metric
- Significant delays
- Moderate Impact
- Slight sched deviation
- Minimal Impact

Probability of occurrence (x-axis): 0 20 40 60 80 100

Risk and Mitigation

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7/14/2014